

CLAIMS

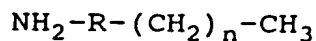
1 1. A method for modifying the characteristics of a protein,  
2 comprising the steps of:

3 attaching a lipid substituent to the protein by a  
4 covalent linkage of at least one lipoamine residue to a  
5 carbohydrate side chain to produce a lipidized protein; and  
6 recovering the lipidized protein.

1 2. A method according to Claim 1, wherein the lipid  
2 substituent is a lipoamine.

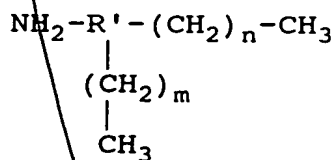
1 3. A method according to Claim 2, wherein the step of  
2 attaching further comprises the steps of  
3 oxidizing a carbohydrate on a glycosylated  
4 polypeptide to produce an oxidized glycoprotein; and  
5 reacting the oxidized glycoprotein with a lipoamine  
6 under suitable reaction conditions to form a lipidized protein.

1 4. A method according to Claim 2, wherein the lipoamine is a  
2 straight-chain lipoamine according to the formula:



5 where R is selected from the group consisting of:  
6 disubstituted alkyl (alkylene); 1,4-disubstituted cyclohexyl;  
7 disubstituted aryl (arylene); amido group of the formula -  
8 (CHR<sub>1</sub>)-CO-NH- wherein R<sub>1</sub> is hydrogen or an amino group;  
9 alkylcarbonyl; and phosphate diester; n is 1-50.

1 5. A method according to Claim 2, wherein the lipoamine is a  
2 branched-chain lipoamine according to the formula:



5 where R' is: a trisubstituted alkyl; a trisubstituted  
6 aryl; an amido group of the formula -(CHR<sub>1</sub>)-CO-N< wherein R<sub>1</sub> is

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23. A method for diagnosing a pathological condition,  
comprising the steps of:  
administering a lipidized antibody comprising a  
diagnostic reporter to a cell sample; and  
detecting the presence of cells in which the  
diagnostic reporter is preferentially localized.

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all